1	CLAIMS
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- 2 1. An isolated cloned human gene having at least in
- 3 part the following nucleotide sequence:
- 4 GTCTACATGGGTGCTTCCCATTCCAGGGGATGAGCTACCTGGAGGATGTGCGGCTCG
- 5 TACACAGGGACTTGGCGGCTCGGAACGTGCTGGTCAAGAGTCCCAACCATGTCAAAA
- 6 TTACAGACTTCGGGCTGGCTGCTGGACATTGACGAGACAGAGTACCATGCAG
- 7 ATGGGGGCAAGGTTAGGTGAAGGACCAAGGAGCAGAGGAGGCTGGGTGGAGTGGTGTC
- 8 TAGCCCATGGGAGAACTCTGAGTGGCCACCTCCCCACAACACACAGTTGGAGGACTT
- 9 CCTCTTCTGCCCTCCCAGGTQCCCATCAAGTGGATGGCGCTGGAGTCCATTCTCCGC
- 10 CGGCGGTTCACCCACCAGAGTGATGTGTGGAGTTATGGTGTGTGATGGGGGGGTGTTG
- 11 GGAGGGGTGGGTGAGGAGCCATGG---
- 12 wherein A, T, C and G represent adenine, thymine,
- 13 cytosine and guanine nucleotides, respectively.
- 14 2. The gene of Claim | having the characteristics
- of ATCC deposit number 53408
- 3. Nucleic acid probes having specific binding
- 17 affinity for at least a part of the gene of Claim 1 or
- 18 for a nucleic acid derivative thereof.

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. 1	4. A polypeptide having at least in part the
. 2	following amino acid sequence:
3	GlyMetSerTyrLeuGluAspValArgLeuValHisArgAspLeuAlaAlaArgAsn
4	ValLeuValLysSerProAsnHisValLysIleThrAspPheGlyLeuAlaArgLeu
5	LeuAspIleAspGluThrGluTytHisAlaAspGlyGlyLysValProIleLysTrp
.6	MetAlaLeuGluSerIleLeuArgArgPheThrHisGlnSerAspValTrpSer
7	TyrGly
8	5. Antibody having specific binding affinity for at
9	least a portion of the polypeptide of Claim 4.
10	6. A test kit for detecting genetic abnormalities
11	related to the gene of Claim 1 in humans comprising
12	containers containing specific nucleic acid probes of
13	Claim 3 and instructions for performing test with said
14	probes.
15	7. Antibody reagent kit for detecting the
16	polypeptide of Claim 4 comprising containers containing
17	antibodies of Claim 5, impunological reagents and
18	instructions for using the kit.
19	8. A method of dagnosing human cancer related to

the gene of Claim 1 comprising:

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1	(a) detecting amplification rearrangement or
2	over-expression of the gene of Claim 1 by hybridizing
3	nucleic acid derived from a tissue sample of a human
4,	suspected of said cancer with the nucleic acid probes of
5	Claim 3; or
6	(b) detecting abnormal expression of the protein
7	product of the gene of Claim 1 by reacting a body sample
8	of a human suspected of said cancer with antibodies of
9	Claim 5.
10	9. A method of inhibiting malignancy caused by
11	erb-B related gene comprising reacting protein produced
12	by said gene with antibody having specific binding
13	affinity for said protein.
14	10. The method of Claim 9 wherein said antibody is
15	conjugated with a toxic agent.
	11. Cell lines exhibiting defined amounts of DNA, RNA or
	protein specific for the v -erbayelated gene of claim 1.
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	CRK 10/7/8
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